



MA30106 Foundation Mathematics 6

Teacher Mr Keerthi Prabhakar

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Class Time EP-M6/1: Mon, Period 7; Wed, Period 7

EP-M6/2: Mon, Period 2; Thu, Period 1

Credits 1.0

Course Description

This course provides a comprehensive introduction to the core concepts of algebra and sequences. It is designed to equip students with a strong foundation in algebraic relations, functions, rational exponents, finite sequences and series. These fundamental mathematical concepts are not only essential for further studies in mathematics but also find wide-ranging applications in various fields. This course suits students seeking a solid mathematical foundation for further academic and practical applications. It emphasizes problem-solving skills and critical thinking, preparing students for more advanced mathematics courses and disciplines where algebra and sequences are relevant.

Textbooks

Mathematics for the International Student SL (Haese Mathematics)

ISBN 978-1-921972-08-9

Algebra 2 (Glencoe McGraw Hill) ISBN 13:9780078738302

Course Outline & Objectives

Learning Units
1 Function 1.1 Relations <ul style="list-style-type: none">1. Relations: Ordered pairs, Cartesian product, relations, graphs of relations2. Domain and range of a relation3. Inverse of a relation 1.2 Functions <ul style="list-style-type: none">1. Definition of function2. Domain and range of function3. Value of a function $f(x)$4. Types of functions<ul style="list-style-type: none">- Linear functions- Quadratic function- Exponential function- Absolute value function- Step function
2. Rational exponents <ul style="list-style-type: none">1. Rational exponents2. Nth root of real number3. Properties of nth roots of real numbers



4. Adding, subtracting, multiplying and dividing radicals
5. Solving equation in exponential form

3. Finite sequence and finite series

1. Sequences
2. Arithmetic sequence
3. Geometric sequence
4. Series
5. Arithmetic series
6. Geometric series

Resources

- Graphing Calculator
- Worksheets
- Writing supplies

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of education and will not be tolerated. Students involved in academic dishonesty will receive a zero, including any student supplying or allowing copying.

Plagiarism is taking someone else's work or ideas and passing them off as one's work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioural Expectations

Students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students must speak English in class. Students are expected to be ready at the start of every class (notebooks, textbook, scientific calculator, writing utensils, etc.) and participate throughout the lesson until class is dismissed.

Behaviour is monitored every class. At the end of the semester, the points are accumulated and used for the student's behaviour score (10%).

Furthermore, all Thai students are expected to embrace the following *desired characteristics*:

- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Be honest and upright.
- Proud to be Thai
- Have a sense of public consciousness
- Eager to learn
- Dedicated to work
- Be an AC gentleman.



Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on time, every time. Students are expected to catch up on all missed work outside class time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher immediately.

Homework & Classwork

An assessment item must be submitted on or before the due date. **An assessment item submitted later than the due date, without an extension from the teacher, will not be graded and will result in an automatic score of zero.** Late homework, however, may be completed and submitted to qualify towards eligibility for exams. At the end of the semester, if the students have not completed enough homework assignments to pass this aspect of the course, additional work will be set for them.

Grading

This course adheres to the Assumption College grading scale:

<i>Final Score \geq 80%</i>	4.0
<i>75% \leq Final Score < 80%</i>	3.5
<i>70% \leq Final Score < 75%</i>	3.0
<i>65% \leq Final Score < 70%</i>	2.5
<i>60% \leq Final Score < 65%</i>	2.0
<i>55% \leq Final Score < 60%</i>	1.5
<i>50% \leq Final Score < 55%</i>	1.0
<i>Final Score < 50%</i>	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Assignments/Projects	20%
Tests	20%
STEM	10%
Behaviour	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

Mathematics can be complicated for many students. All students are encouraged to do the following:

1. Read the course textbook. You may need to read the material multiple times to understand. Students can responsibly manage the material and gain the most from the



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course by reading along at home with the lessons taught at school (typically only a few pages per night).

2. Complete all forms of assessment and submit all homework and assignments.
3. Search either Thai or English online if you don't understand a topic discussed in class or to understand the topic better.
4. Do not copy your classmates' work; try to struggle through independently. This struggle will help you learn.
5. See the teacher outside of class time for assistance.
6. Do more than just the bare minimum; do the additional problems in the textbook and the review questions at the end of the chapter and check your answers.
7. Study the notes and vocabulary for at least a few minutes every day.



MA30218 Universal Mathematics 6

Teacher Mr. Shiv Kumar

Contact Science lab, 2nd Floor Colombet Building.
skkumarshiv100@gmail.com

Class Time EP-M6/1: Monday Period-4, Tuesday Period-7, Friday Period-2
EP-M6/2: Tuesday Period-6, Wednesday Period-3, Thursday Period-3

Credits 1.5

Course Description

The purpose of this class is to prepare you for the SAT test. In this class, you will be given an SAT style quiz at the beginning of the week every two weeks. Our first quiz will be at the beginning of next week. We will spend class time in between these quizzes going over the answers and learning SAT material and problem solving techniques. We will also review algebra lessons associated with the SATs. Each quiz you take will be graded. However, once we go over the answers in class, you can resubmit your corrected quiz and get a half point for each answer you corrected (you must show your work). For example, if you get a 50% on your quiz, you can change your grade to 75% by re-submitting your corrected quiz. You will also earn class participation by re-submitting your corrected quiz. The midterm test and final test will also be In SAT style format.

Textbook

Mathematics for the International Student Mathematics SL (Haese Mathematics)
ISBN 978-1-921972-08-9

Course Outline & Objectives

The content learning during this class will be:

- Class Notes and worksheets – Review of real number system and properties of real number, work on polynomials with one variable, working with inequalities, one variable inequality, quadratic inequality, square root inequality and absolute values equations, absolute value inequality.
- Chapter 2 – Review of function and different type of function, increasing functions decreasing functions, quadratic functions and identity functions. Review the algebraic functions, composite functions and inverse functions.
- Chapter 3 & 4 – Understanding of exponential and logarithmic functions, working with graphing of exponential and logarithmic functions, working with logarithms and antilogarithms, working with exponential equation and logarithmic equation.



- Class notes and worksheets - understanding of analytical geometric. Understand the distance between two point, midpoint, slope of parallel lines and perpendicular lines. Work with linear equations and distance between two points and parallel lines. Work on conic section including circle, parabola, ellipse and hyperbola.

If you have questions about the class or your grade you can email me at:

skkumarshiv100@gmail.com

Resources

- | | |
|-----------|--|
| Required | <ul style="list-style-type: none">• A plastic folder for worksheets.• White School Notebook• Red and blue pen. |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Ruler |

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero. Students should be expected to earn their scores. Scores of pass should not be given unless the student has attained sufficient knowledge to earn a passing grade.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebooks, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (10%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:



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- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an AC gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date for a full score of 10 points. Late work without excuse will be deducted at the rate of 10% per day until the maximum possible score is zero. All work must be turned in before the last week of each term. Late work is discouraged.

Grading

This course follows to the Assumption College grading scale:

<i>Final Score</i> ≥ 80%	4.0
$75\% \leq \text{Final Score} < 80\%$	3.5
$70\% \leq \text{Final Score} < 75\%$	3.0
$65\% \leq \text{Final Score} < 70\%$	2.5
$60\% \leq \text{Final Score} < 65\%$	2.0
$55\% \leq \text{Final Score} < 60\%$	1.5
$50\% \leq \text{Final Score} < 55\%$	1.0
<i>Final Score</i> < 50%	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Class work	20%
Class Participation	10%
Note book	10%
Behavior	10%
Quizzes	10%
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)



Recommendations for Success

Mathematics can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the course textbook. Often, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory mathematics book.
4. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



HP30106 Foundation PE and Health

Teacher Mr. Brian Mallon
Contact EP Staff Office, Level 2
Bmal1332@gmail.com

Credits 0.5

Course Description

Study, analyze, and practice playing Thai and international sports both on teams and as individuals. Analyze the concept of different patterns of movements for playing sports using personal ability to increase team capability. Show movements creatively and use the principles and concepts to improve and develop the quality of one's life. When playing sports follow the rules, regulations, and proper game tactics. Display proper etiquette when watching competitions with other people. Express good manners while watching and competing in an athletic event. Be a good sportsman and uphold the values and beauty of sport. Use these values in real-life situations to displace honesty, integrity, and teamwork.

Textbook

No textbook required for this unit

Indicators

1. Analyse concepts of various patterns of movements in playing sports.
2. Use their capacities to increase team potential (bearing in mind the effects on others & society).
3. Can play Thai and international sports on a team and as individuals.
4. Ability to display creative movements.
5. Participate in recreational activities and apply the principles to improve quality of life/society.
6. Exercise and play sports that are suitable to themselves regularly. Use their capacities for increasing team potential, decreasing egoism, and bearing in mind the effects on society.
7. Explain and observe the rights, rules, regulations and various strategies while playing and competing in sports with others and apply them for concluding practical guidelines and continuously apply them in daily life.
8. Show good manners in watching, playing and competing in sports with sporting spirit and apply them on all occasions resulting in development of good personality.
9. Participate in physical activities and sports happily; appreciate the value and aesthetics of sports.



PE Course Outline & Objectives

Unit 1: Futsal (or basketball) – Knowledge (1 hour)

1.1 – Rules / Regulations / Contents / History / Benefits

Unit 2: Physical Fitness Testing (2 hours)

Unit 3: Futsal (or basketball) - Receiving and Sending Ball (4 hours)

Unit 4: Futsal (or basketball) – Ball Controlling (4 hours)

Unit 5: Futsal (or basketball) – Shooting (3 hours)

HEALTH COMPONENT

Indicators

- Recognize values and be able to set a plan for developing alternative ways for promoting physical and motor fitness.
- Analyze risk situation leading to accidents in schools and community as well as present problem-solving methods.
- Assess the effects of individual risks on the community.
- Establish community's awareness of the importance of security.
- Set plans to safely help victims of disasters.
- Explain the process to create security in the community.
- Participate in activities that establish awareness of safety.
- Recognize consulting organizations for safety and understand People Security Protection Law.
- Assess process of activity arrangement to promote security in community.
- Set plans and develop preventives from injury from accidents, drug abuse and violence for the well-being of a person and family.
- Realize and be responsible for solving drug problems in community.
- Realize and be able to analyze the influence of various media on social violence-related shared values.
- Identify ways to prevent problems of violence.
- Demonstrate life-rescues in different situations.
- Analyze the concept of the diverse types of movements when playing sports.
- Use personal ability to increase team capability and consider effects on other people and society.



- Play at least one type/pairs of Thai sports and international sports both individuals and teams.

HEALTH COMPONENT

Analyze the Work Efficiency and use of Different Body Systems [Indicators – 1, 8, 10]

- Urinary system
- Endocrine system
- Nervous system
- Effects of Stress, Drug and Alcohol on the Body Systems

Planning for Individual Health Care and Relationships with Oneself, Family Members and Others [Indicators – 2, 3, 5, 6, 8, 9,10]

- Planning for health care of family members
- Guidelines for health care of a person and his/ her family members
- Avoiding unwanted pregnancies and Sexual Infections
- Proper values and sexual behaviors to cultures and oneself

Personal Care and Health Promotion for Disease Prevention [Indicators – 8, 9, 10, 11, 12]

- Significant contagious & non-contagious diseases of the country & their preventions
- Guidelines and self -practice for health promotion and disease prevention using Thai wisdoms
- Using sport as a way to provide life balance and prevent disease

Sources

- | | |
|-----------|--|
| Required | • School Physical Education Uniform (a parental note explaining why the student is out of uniform is required or a uniform score of 0 will be enforced). |
| Suggested | • Fitness and sport activities during lunch break each day. |

Academic Integrity Policy

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Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement



when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (in PE uniform) and to actively participate throughout the lesson until class is dismissed.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline
- Eager to learn
- Be an AC gentleman
- Dedicated to work

Attendance & Tardiness

Students are expected to be in class on time, every time. Unexcused absences or tardiness will not be tolerated. In the event of planned absences, please notify the teacher in advance. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework in Physical Education is limited; however, any homework must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

This course follows to the Assumption College grading scale:

<i>Final Score</i> $\geq 80\%$	4.0
$75\% \leq \textit{Final Score} < 80\%$	3.5
$70\% \leq \textit{Final Score} < 75\%$	3.0
$65\% \leq \textit{Final Score} < 70\%$	2.5
$60\% \leq \textit{Final Score} < 65\%$	2.0
$55\% \leq \textit{Final Score} < 60\%$	1.5
$50\% \leq \textit{Final Score} < 55\%$	1.0
<i>Final Score</i> $< 50\%$	0.0



Evaluation and Assessment

The final semester grade for this course out of 100% and will be broken down as follows:

Formative	50%
Midterm	20%
Final Exam	20%
Affective Domain	10%

Recommendations for Success

Physical Education is to be enjoyed. All students are encouraged to try the following:

1. Look to be physically active every day.
2. Look to visit parks and tracks where the required fitness testing can be practiced.
3. Come see the teacher outside of class time for assistance.
4. Try new sports. We all have different sports we like and different sports we are good at. We encourage students to learn more about their favorite sports on ‘YouTube’ and other media platforms. If you never try, you will never know if you like it!
5. See PE and movement as an *opportunity* to improve your health and well-being (not a chore). Your teenage years are the most important years to be active and can affect the quality of life you have as an adult.



ST30205 Science Aptitude in Physics

Teacher Mr. Glenn Thomas

Contact EP Teacher Room, 2nd Floor Colombet Bldg.

Class Time EP-M6/2: Tues, period 5; Wed, period 5-6,

Course Description

This course focuses on a continuation of Modern Physics and a supplemental study of any topics not in the curriculum but which should be taught for general understanding and taking SAT and CUATS Physics tests. The course offers both a conceptual foundation and an algebra-based presentation of Physics. Critical thinking skills in solving problems will be the emphasis with a sound basic understanding of conventional Mathematics. The course will closely follow the order and content of the latest version of the American high school textbook, Holt *Physics*. Students are encouraged to read widely from different resources which include the Internet, various Physics (both British and American), books published for improving examination skills as well as from Thai Physics books. They can always approach the teacher for references should they require.

Textbook (as a base)

Physics, Holt McDougal 2012

ISBN-13: 978-0-547-58669-4; ISBN-10: 0-547-58669-8

Miscellaneous references available from the teacher upon request.

Course Outline & Objectives

Unit1 Mechanics and Motions

- SI Units, vectors and scalars
- Speed, distance and time
- Constant acceleration equations (SUVAT)
- Kinetic and mechanical energy
- Conservation of momentum

Unit 2 Electricity and Energy

- Basics concepts of resistance, voltage and current
- Ohm's Law and its applications to parallel/series circuits
- Thermistors, LDRs and variable resistors
- Potential Dividers circuits



- Transformers and Power

Unit 3 Revision

- Plenty of exercises for general revision including both problem solving and multiple choice questions will be used as teaching materials to enable the students to revise and fully equipped with external tests like SAT and CUATS Physics test.

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• Notebooks• Scientific calculator (not a phone-based application)• Ruler |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Electronic Thai-English translator (not a phone-based application)• A Matayom-level physics practice book in Thai |

Academic Integrity Policy

Students are expected to following the guidelines laid down in the Assumption College Student Handbook in terms of academic pursuits and excellence. They are strongly and constantly reminded that it is of paramount importance to understand one topic intensively before being able to move on to the next one. However, all the topics are inter-related. Therefore, any forms of idleness or poor attitude in learning Physics will not be tolerated and remedial actions immediately instigated to rectify the situation. Students are always welcome to consult the teacher for guidance of whatever issues related to learning which may arise.

Behavioral Expectations

A good sense of behavioral awareness in the classroom will be strictly reinforced which is essential to the ultimate success of the learning process. Students are not allowed to do other subjects in the Physics class or play with electronic gadgets not related to what is being taught in the classroom. Infraction of behavioral rules will be handled accordingly.

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Class-work



Homework and class-work will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

Foundation Physics follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Homework/Classwork	30%
Quiz	20%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

Physics can be a difficult course for many students. All students are should do the following:

1. Take good notes in the classroom. Go home and revise the notes; make sure every single part is clearly understood. For any doubts, queries, clarifications, the student should immediately note down and ask the teacher either in the classroom or individually in the teachers' room.
2. Students are encouraged to read widely-from various textbooks available in the market, from the school library and from the Internet. (e.g Youtube, Google, etc.)
3. They should do the prescribed homework.
4. It is useful to organize small study group among the students.



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5. Students can consult me individually for techniques in getting high or full scores in external Physics tests like CU-ATS and SAT Subject Tet.
6. Ability for find the time to read Thai Physics (e.g. from the library) would be an additional asset.



ST30235 Universal Chemistry 5

Teacher Mrs. Anumol Sunny
Contact EP Teacher Room, 2- Floor Colombet Bldg
Class Time EP-M 6/1 (Monday, Wednesday & Thursday)
EP-M 6/2H (Tuesday, Wednesday & Thursday)
Credits 1.5

Course Description

This course on chemistry focuses on inorganic chemistry and organic chemistry applications. The course offers both a conceptual foundation and a mathematical presentation of chemistry. As with many courses within EP, critical thinking skills are emphasized over those of rote learning. The course will closely follow the order and content of the latest version of the British high school text book. The course provides foundation for university level chemistry.

Demonstrations, computer-simulated activities and laboratory sessions will allow students to learn basic laboratory techniques, lab safety and get a hands-on experience of the theories and concepts learned in the lectures. As with many courses within the English Program, critical thinking skills are emphasized over those of rote learning and BMAT style questions are a part of the evaluation process.

Textbook

- *International A Level Chemistry, Oxford International AQA Examinations.*
By Ted Lister & Janet Renshaw
Supplementary:
 - *BMAT Past Paper Worked Solutions (2003-2017)* 2018 by Black Stone Tutors
-

Course Outline & Objectives

Chapter 8 Group 1 Alkali Metals

- Physical properties of Group 1 elements
- Chemical Properties of Group 1 elements
- Chemical reactions involved with Group 1 elements

Chapter 9 Group 2 Alkaline Earth Metals

- Physical properties of Group 2 elements
- Chemical Properties of Group 2 elements
- Chemical reactions involved with Group 2 elements

Chapter 10 Group 7 The Halogens 10



- The halogens
- The chemical reactions of the halogens
- Reactions of halide ions
- Uses of Chlorine

Chapter 23 Transition Elements

- The general properties of transition metals
- Complex formation and the shape of complex ions
- Colored ions
- Variable oxidation states of transition elements
- Catalysis

Chapter 27 Aromatic Chemistry

- Introduction to arenes
- Physical properties, naming and reactivity
- Reactions of Arenes
- Further reactions of arenes

Chapter 31 Organic Synthesis and Analysis

- Synthetic routes
- Organic Analysis

Chapter 33 Chromatography

- Chromatography

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• Assumption Notebook (2)• Binder/ folder• Scientific calculator (not a phone-based application)• Ruler |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Electronic Thai-English translator (not a phone-based application)• A Matayom-level chemistry practice book in Thai |

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any



form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

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Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline - Eager to learn
- Be an AC gentleman - Dedicated to work

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.



Grading

Foundation Chemistry follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Classwork/ & Labs	20%
Assignments	30%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

Chemistry can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the Chemistry textbook. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory chemistry book.
4. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



ST30250 Scientific Aptitude and Biology Common Course

Teacher: Mr. Grant Shorten

Contact: Science lab, 2nd Floor Colombet Building.

epac.grant@gmail.com

Class Time: EP-M6/2: Monday Period-4, Tuesday Period-7, Thursday Period-4

Credits: 1.5

Course Description

Students will study the following topics: maintenance of equilibrium in human body and animal body by the respiratory system, excretion system, circulatory system, lymphatic system, and immunity system; inheritance of genetic material, genetic variation, mutation, biodiversity; hormone structure; positions, structure and functions of important glands in endocrine system; working mechanism of hormones; differences between hormone and pheromone, examples of benefits gained from hormones and pheromones related to everyday life; perception and responses to stimuli of unicellular organisms and vertebrates; types of nerve cells, neurotransmission; structures and functions of brain; comparison of somatic nervous system and automatic nervous system; structure and responsibilities of each sense organs; methods to prevent harms that can affect nervous system and sense organs; animals' movement in order to respond to different types of environment; structure and functions of bones, human muscle; DNA, RNA; structure, function and synthesis of genetic material, mutation, genetic engineering and its application; concepts and evolution of living things; human evolution from past to present; speciation; maintenance of cell equilibrium in living things; mechanics to maintain water equilibrium in plants; mechanics to control equilibrium of water and minerals; maintenance of equilibrium in human body and animal body.

In this course, students will use scientific process and skills which include observation, data search, experiment, making informed judgement, data presentation, classification, data interpretation, making a conclusion, analysis, explanation, discussion, team working, and assessment. Students will gain knowledge, understanding, and abilities in problem solving, thinking and use of technology. Students will also be able to apply knowledge learned in everyday life. The following characteristics will in addition be enhanced: love for nation, religion and the kind, honesty, self-discipline, avidity for learning, self-sufficiency, dedication to work, pride in Thainess, public mindedness and AC gentleman.

Textbook

External sources

Cambridge International AS and A level Biology

Course Outline & Objectives

Unit 1: Structures and Functions in Plants

1. **Plant Structures and Functions:** Plant structures refer to the various parts of a plant, each with specific functions essential for survival and growth.



2. **Roots, Stems, and Leaves:** Roots anchor the plant, absorb water and nutrients, while stems provide support and transport materials. Leaves facilitate photosynthesis and transpiration.
3. **Flowers and Reproduction:** Flowers contain reproductive organs, including the stamen (male) and pistil (female), playing a crucial role in pollination and seed production.
4. **Photosynthesis:** Photosynthesis occurs in chloroplasts within plant cells, enabling the conversion of sunlight, carbon dioxide, and water into glucose and oxygen.
5. **Transport and Support:** Vascular tissues like xylem and phloem transport water, nutrients, and sugars within the plant. Plant structures also provide support, aiding in growth and resisting environmental forces.

Unit 2: Systems in the Body

1. **Body Systems:** Body systems are intricate networks of organs and tissues that work collectively to perform specific functions necessary for human life.
2. **Circulatory System:** The circulatory system, comprised of the heart and blood vessels, transports blood throughout the body, delivering oxygen and nutrients while removing waste products.
3. **Respiratory System:** The respiratory system, including the lungs and airways, enables the exchange of oxygen and carbon dioxide between the body and the external environment.
4. **Digestive System:** The digestive system processes food, breaking it down into nutrients for absorption, and eliminating waste products.
5. **Nervous System:** The nervous system, consisting of the brain, spinal cord, and nerves, controls and coordinates bodily functions, transmitting signals and responding to stimuli.
6. **Muscular-Skeletal System:** This system, comprising muscles and bones, provides support, protection, and facilitates movement.
7. **Endocrine System:** The endocrine system consists of glands that release hormones, regulating various bodily functions, including metabolism and growth.
8. **Immune System:** The immune system defends the body against pathogens and foreign substances, maintaining health and well-being.
9. **Reproductive System:** The reproductive system is responsible for reproduction and the continuation of the species.

Unit 3: Genetics and Genetic Engineering

1. **Molecular Genetics:** Molecular genetics is a field of biology that focuses on the study of genes, DNA, and their role in inheritance and genetic variation.



2. **DNA and Genes:** DNA, the genetic material, contains genes, which are sequences of DNA responsible for coding specific proteins and determining an organism's traits.
3. **Genetic Replication:** DNA replication is the process by which DNA makes an identical copy of itself, vital for cell division and the transmission of genetic information to offspring.
4. **Gene Expression:** Gene expression involves the transcription of DNA into RNA and the translation of RNA into proteins, controlling the synthesis of cellular components.
5. **Mutations:** Mutations are changes in DNA sequences that can lead to genetic variations and can have implications for health and evolution.

Unit 4: Evolution and Population Genetics

1. **Evolution:** Evolution is the gradual process by which species change over time, resulting in the development of new species from common ancestors through mechanisms such as natural selection and genetic variation.
2. **Population Genetics:** Population genetics is the study of genetic variation and how it influences the evolution of populations, including factors like gene flow, genetic drift, and selection.
3. **Natural Selection:** Natural selection is a key driver of evolution, where organisms with advantageous traits are more likely to survive and reproduce, leading to the propagation of these traits in a population.
4. **Genetic Variation:** Genetic diversity within populations is vital for evolution, as it provides the raw material for natural selection to act upon.
5. **Speciation:** Speciation is the process by which new species arise, typically through the accumulation of genetic differences and reproductive isolation.

If you have questions about the class or your grade you can email me at:

epac.grant@gmail.com

Resources Required

A plastic folder for worksheets.

White School Notebook

Red and blue pen

Ruler

Calculator



Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero. Students should be expected to earn their scores. Scores of pass should not be given unless the student has attained sufficient knowledge to earn a passing grade.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioural Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebooks, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behaviour is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behaviour score (10%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an AC gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date for a full score of 10 points. Late work without excuse will be deducted at the rate of 10% per day until the maximum possible score is zero. All work must be turned in before the last week of each term. Late work is discouraged.



Grading

This course follows to the Assumption College grading scale:

<i>Final Score</i> $\geq 80\%$	4.0
$75\% \leq \textit{Final Score} < 80\%$	3.5
$70\% \leq \textit{Final Score} < 75\%$	3.0
$65\% \leq \textit{Final Score} < 70\%$	2.5
$60\% \leq \textit{Final Score} < 65\%$	2.0
$55\% \leq \textit{Final Score} < 60\%$	1.5
$50\% \leq \textit{Final Score} < 55\%$	1.0
<i>Final Score</i> $< 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Class work	20%
Class Participation	10%
Note book	10%
Behavior	10%
Quizzes	10%
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

Mathematics can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the course textbook. Often, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory mathematics book.
4. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



ST30290 Applied Biochemistry & Microbiology Laboratory

Teacher Mrs. Anumol Sunny
Contact EP Teacher Room, 2- Floor, Colombet Bldg.
Class Time EP-M 6/2
Credits 0.5

Course Description

This course is a detailed version of chemistry and biology focuses both on practical and theoretical knowledge. The course gives a broader idea and practical knowledge on both biology and chemistry which will be beneficial for those students, who is aspiring for medical related courses. Biochemistry & Microbiology is an anchor linking many fields in Life Science like Molecular Biology, Agricultural Science, Genetics, Veterinary Medicine, Human Medicine, Pharmacy, Biotechnology, etc. These are the fields in Life Science that has great potentials and high prospects now.

Demonstrations, computer-simulated activities and laboratory sessions will allow students to learn basic laboratory techniques, lab safety and get a hands-on experience of the theories and concepts learned in the lectures. As with many courses within the English Program, critical thinking skills are emphasized over those of rote learning and SAT-style questions are a part of the evaluation process.

Textbook

- Prescott's Microbiology, Book by *Christopher J. Woolverton, Joanne Willey, and Linda Sherwood.*
- Lehninger Principles of Biochemistry: International Edition By David L. Nelson, Michael Cox

Course Outline & Objectives

Unit 1 Knowledge about science project

1. State and explain basic principles and personal practices that demonstrate awareness in safe lab practices for personal safety, other people's safety and environmental safety; present guidelines to solve problems when accidents occur.
2. Choose proper equipment or tools to perform lab experiments and to measure different kinds of quantities.
3. Present a plan for lab experiment, conduct an experiment, and write a lab report.

Unit 2 Basic biology and chemistry laboratory

- 2.1 Use biochemistry data analysis program.
- 2.2 Basically apply aseptic technique correctly and properly for microbiology laboratory.
- 2.3 Study colonial morphology and cells of microorganisms by using light microscope.



- 2.4 Conduct an experiment to detect microorganisms in food, water and soil.
- 2.5 Prepare solutions.
- 2.6 Conduct an experiment to properly choose indicators for acid-base titration.
- 2.7 Conduct an experiment to extract caffeine from substance samples by liquid-liquid extraction.
- 2.8 Conduct an experiment to find the melting points of solid samples.

Unit 3 Science and problem-solving

- 3.1 Identify a problem, collect information and concepts related to the problem in order to develop a project.
- 3.2 Design methods to solve the problem
- 3.3 Plan and solve the problem

Resources

- | | |
|-----------|--|
| Required | <ul style="list-style-type: none">• Assumption Notebook (1)• Binder/ folder• Scientific calculator (not a phone-based application)• Ruler |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Electronic Thai-English translator (not a phone-based application) |

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.



A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Possess discipline - Eager to learn
- Be an AC gentleman - Dedicated to work

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

Foundation Chemistry follows to the Assumption College grading scale:

<i>Final Score</i> $\geq 80\%$	4.0
$75\% \leq \textit{Final Score} < 80\%$	3.5
$70\% \leq \textit{Final Score} < 75\%$	3.0
$65\% \leq \textit{Final Score} < 70\%$	2.5
$60\% \leq \textit{Final Score} < 65\%$	2.0
$55\% \leq \textit{Final Score} < 60\%$	1.5
$50\% \leq \textit{Final Score} < 55\%$	1.0
<i>Final Score</i> $< 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Homework/Classwork/Projects	30%
Quizzes	20%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)



Recommendations for Success

This can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the Biochemistry and Microbiology textbook. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory book which gives biochemistry and microbiology terms.
4. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



ST30295 Applied Health Science 1

Teacher Mr. Michael Dew

Contact EP Teacher Room, 2- Floor, Colombet Bldg.

Class Time EP-M 6/2: Tuesday Period 3, Thursday Period 3 and 4

Credits 0.5 (1 Period /week)

Course Description

This course on health science focuses on DNA and RNA in genetics, genetic variation, genetic mutations, evolution and natural selection. The course offers both a conceptual foundation and qualitative presentation of health science. As with many courses within EP, critical thinking skills are emphasized over those of rote learning. The course will closely follow the order and content of the latest version of content as a part of this course, which provides some of the major topics in university level health science.

Demonstrations, computer-simulated activities and laboratory sessions will allow students to learn basic laboratory techniques, lab safety and get a hands-on experience of the theories and concepts learned in the lectures. As with many courses within the English Program, critical thinking skills are emphasized over those of rote learning and BMAT- style questions are a part of the evaluation process.

Textbook

- *International A Level Health Science, Oxford International AQA Examinations.*

Supplementary:

- *BMAT Past Paper Worked Solutions (2003-2017) 2018*

Course Outline & Objectives

Chapter 1: DNA and Genetics

- 1.1 Structure and Function of the DNA molecule
- 1.2 Structure of Nucleotides and Genetic coding
- 1.3 DNA replication, transcription, and translation

Chapter 2: Genetic Variation and Mutations

- 2.1 Genetic variation
- 2.2 Genetic mutations
- 2.3 Evolution and natural selection

Chapter 3: Selective Breeding

- 3.1 Genetic genotypes
- 3.2 Genetic phenotypes



Chapter 4: Antibiotic Resistance

- 4.1 Types of Bacteria
- 4.2 Antibiotics

Resources

- | | |
|-----------|---|
| Required | <ul style="list-style-type: none">• Assumption Notebook (2)• Binder/ folder• Ruler |
| Suggested | <ul style="list-style-type: none">• Many different colored pens/markers/highlighters• Electronic Thai-English translator (not a phone-based application) |

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (Notebook, textbook, scientific calculator, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

A behavior score (out of 5 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%).

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- | | |
|----------------------|---------------------|
| • Possess discipline | - Eager to learn |
| • Be an AC gentleman | - Dedicated to work |

Attendance & Tardiness



Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

Foundation Chemistry follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Homework/Classwork/Projects	30%
Class Test	20%
Behavior	10% (program mandated)
Midterm Exam	20% (program mandated)
Final Exam	20% (program mandated)

Recommendations for Success

All students are encouraged to try the following:

1. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.



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2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Get a Thai language introductory health book.
4. Do **not** copy your classmate's work; struggle through and do the work on your own! This is how you learn!
5. Come see the teacher outside of class time for assistance.
6. Do more than just the bare minimum; there are plenty of problems in the textbook. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
7. Study the notes and vocabulary at least a few minutes every day, such as in the homeroom or during any free time you might have in other classes.



ST30275 Multimedia Creation

Teacher Mr. Matt Harris
Contact Location: 5th Floor Computer Lab

Class Time EP-M 6/1: Tuesday 09:20 – 11:10
EP-M 6/2H: Monday 14:00 – 15:40

Credits 1.0

Course Description

Study of basic concepts, elements and technologies related to multimedia, creating a slide animation, recording and editing including development of multimedia project by using understanding process, thinking process, technological process, and group dynamics to gain knowledge and understanding and to be able to apply knowledge to apply in everyday life, as well as disciplined pursuit learning and commitment to work.

Course Outline & Objectives

Topics include: [Indicator 1,2,3,4]

Mutlimedia Creation [Indicator 1, 2, 3, 4]

Week 1: Introduction week

Week 2-4: **Unit 1. Introduction to Multimedia** [Indicators 1, 2] Art composition

Type of graphic file, Introduction to Multimedia

Week 5-7: Creation of images based on photographs, digital artwork

Midterm Exam (Week 8 and 9)

Week 10-12: **Unit 2. Multimedia program** [Indicators 3, 4] Introduction to the program.

2.2 Logo design

2.3 Poster Design

2.3 Electronic Book Creation

Week 13-14: Vector Graphics

Week 15: **Unit 3. Mutltimedia** [Indicators 1, 2, 3, 4]

Sound

- Type of file
- recording
- editing sound

3.2 Video

- Type of file
- Video Insertion

Week 15: **Unit 4. Multimedia Project** [Indicators 1, 2, 3, 4]

Project development

- Project Layout
- Project Development



4.2 Presentation and evaluation of the project.

- Presentation of the project.
- Evaluation of the project.

Final Exam (Week 16)

Resources

- Required
- EP Computer Lab

Academic Integrity Policy

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Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities. Students must accept responsibility for themselves and their actions. A behavior score (out of 10 points) is taken every day. At the end of the semester the average is taken and used for the student's behavior score (10%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an AC gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.



Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. Late assignments can be submitted for a maximum of 50% up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

This course follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

STEAM	10%
Homework/Classwork	30%
Coursework	30%
Behavior	10% (program mandated)
Midterm Exam/Project	10% (program mandated)
Final Exam	10% (program mandated)

Recommendations for Success

Information technology can be a difficult course for many students. All students are encouraged to try the following:

1. Read, read, read the teacher's online notes. Oftentimes, reading the text once is not enough even for native English speakers. You may need to read the material multiple times to understand. By reading along at home with the lessons taught at school (typically only a few pages per night), students will be able to responsibly manage the material and gain the most from the course.
2. Search online, in either Thai or English, if you don't understand a topic discussed in class or simply to get a better understanding of the topic.
3. Do **not** copy your classmates work; struggle through and do the work on your own! This is how you learn!
4. Come see the teacher outside of class time for assistance.



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5. Do more than just the bare minimum; there are plenty of problems in the teacher's online notes. We only have time for so many of them. Do the review questions at the end of the chapter and see the teacher for the answers.
6. Study the notes and vocabulary at least a few minutes every day, such as in homeroom or during any free time you might have in other classes.



Student Syllabus for: EP6 Foundation English En30106

Teacher: Mr. Jonathan Steven Phillips

Contact: epac.jonathanphillips@gmail.com

COURSE DESCRIPTION:

Welcome to Semester 1 of EP6 Foundation English 5. This course is designed to further your ability with analyzing reading, critical thinking, as well as strengthen your formal writing ability. We focus on academic skills, writing, time management and inter-personal communication skills. This course is reading, and writing intensive. In-class reading and writing assignments, research essays, large amounts of literary and academic vocabulary, participation, homework, quizzes and exams make up a majority of your grade. By the end of the year, you should be well prepared to write about and analyze a variety of academic topics at university.

The course is at an intermediate level and will move quickly. If you miss a class, it is your responsibility to find out what you have missed, either from your classmates or by seeing me on your own time, not during class time.

COURSE OBJECTIVES:

The main objectives of this course are:

- to strengthen the students' writing ability in formal, informal, and technical writing, according to International English language exam expectations
- to broaden and expand the students' proficiency and knowledge in exam level English;
- to provide material for the students to revise, consolidate and extend their command of English grammar and vocabulary;
- to develop the students' reading skills to enable them to skim the text for main ideas, to scan the text for specific information, and to deduce meanings from the context, to identify the views/opinions of the author, to distinguish main ideas from supporting ones, to recognize connections and relationships between facts in a text and to label diagrams/flowcharts using precise information.
- to develop the students' writing skills to enable them to respond to input applying information to a specified task, to elicit, to select, to summarize information in clear, organized essays, to give a well-organised overview of relevant information in a graph, chart, table or diagram and to present a clear, relevant, well-organised argument, giving evidence or examples to support ideas and use language accurately.



COURSE OUTLINE:

IELTS: the high-stakes English test for study, migration or work

- Reading: The reading component consists of 40 questions, designed to test a wide range of reading skills. These include reading for gist, reading for main ideas, reading for detail, skimming, understanding logical argument and recognizing writers' opinions, attitudes and purpose.
- Writing: You will be presented with a graph, table, chart or diagram and asked to describe, summarise or explain the information in your own words. You may be asked to describe and explain data, describe the stages of a process, how something works or describe an object or event.
- Vocabulary: Art, business & money, communication & personality, crime & punishment, economics, education, environment, family & children.

End of Midterm Exam Content – Start of Final Exam Content

IELTS: the high-stakes English test for study, migration or work

- Reading: this includes three long texts which range from the descriptive and factual to the discursive and analytical. These are taken from books, journals, magazines and newspapers. They have been selected for a non-specialist audience but are appropriate for people entering university courses or seeking professional registration.
- Writing: you will be asked to write an essay in response to a point of view, argument or problem. Responses to both tasks must be in a formal style.
- Vocabulary: Food, health, language, technology, transport, travel, society, sport, work.

You need to have the following in class each day:

Blue or Black ink pens and pencils.

Plastic folder to hold materials/textbooks

(2) White notebooks

(1) Highlighter

Paper Dictionary

Paper/Electronic Thesaurus

COURSE POLICIES/BEHAVIOR:

Course policies are the rules and guidelines our class follows. They can be summed up in one word: respect. Respect the teacher; respect your fellow classmates and their desire to learn. Exhibit respect and behave and act as young men.

CHEATING, COPYING and PLAGIARISM:

There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and **will not be tolerated**. Students



involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, **will receive a zero.**

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

HOMEWORK:

All homework assignments must be completed and turned in during class the day that it is due. Late work is accepted, but if work is turned in after class or the next day, points will be deducted.

GRADE DETERMINATION:

Your grades will be determined by your homework, class work, quizzes/tests and participation. You will be graded on speaking, listening, reading, writing and behaviour. Do your best in everything that we do, and do your best to keep up and not miss anything. Zeros will hurt your grade much more than a low score. **Active participation and preparedness is expected at all times!**

This course follows to the Assumption College grading scale:

<i>Final Score</i> $\geq 80\%$	4.0
$75\% \leq \textit{Final Score} < 80\%$	3.5
$70\% \leq \textit{Final Score} < 75\%$	3.0
$65\% \leq \textit{Final Score} < 70\%$	2.5
$60\% \leq \textit{Final Score} < 65\%$	2.0
$55\% \leq \textit{Final Score} < 60\%$	1.5
$50\% \leq \textit{Final Score} < 55\%$	1.0
<i>Final Score</i> $< 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Group Work	10%
Reading Assignments	20%
Writing Assessments	25%
Behavior	10% (program mandated)
Midterm (Summative) Exam	20% (program mandated)
Final Exam	20% (program mandated)

With your dedication, discipline, respect and hard work we will have an excellent semester.



Student Syllabus for: EPM6 Reading and Writing 6: EN30206

Teacher: Mr. Joshua Bolen, Esq.; M.S., Honours; PGCE, Distinction (Mr. Bolen)

COURSE DESCRIPTION:

Welcome to EP6 Reading & Writing. This course is designed to further your ability with analyzing reading, and to strengthen formal writing ability. We focus on academic skills. You will regularly practice advancing your vocabulary, understanding of question types, and responding formally to a variety of questions. In-class assignments, participation, and exams make up your grade.

The course is at an upper- intermediate level and will move quickly. If you miss a class, it is your responsibility to find out what you have missed, either from your classmates or by seeing me on your own time, not during class time.

Resources

- | | |
|-----------|---|
| Required | <input type="checkbox"/> At least 2 white notebooks. |
| | <input type="checkbox"/> Dictionary & Thesaurus (English to English) |
| | <input type="checkbox"/> Extra lines A4 paper for written assignments. |
| Suggested | <input type="checkbox"/> many different colored pens/markers/highlighters |

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.

Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, And their actions. Students are expected to be ready at the start of every class (notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year. At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- | | |
|--|--|
| • Love for the country and the King, faith in religion | |
| • Possess discipline | • Eager to learn |
| • Be self-sufficient | • Dedicated to work |
| • Proud to be Thai | • Have a sense of public consciousness |
| • Be an A.C. gentleman | • Be honest and upright |



Attendance & Tardiness

Attendance will be taken at the start of every class. **Students are expected to be in class on-time, every time.** Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date. If the work is not done for the start of class, your maximum score will be reduced. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.

Grading

This course follows to the Assumption College grading scale:

<i>Final Score \geq 80%</i>	4.0
<i>75% \leq Final Score $<$ 80%</i>	3.5
<i>70% \leq Final Score $<$ 75%</i>	3.0
<i>65% \leq Final Score $<$ 70%</i>	2.5
<i>60% \leq Final Score $<$ 65%</i>	2.0
<i>55% \leq Final Score $<$ 60%</i>	1.5
<i>50% \leq Final Score $<$ 55%</i>	1.0
<i>Final Score $<$ 50%</i>	0.0

Evaluation and Assessment (program mandated)

The final semester grade for this course out of 100% is broken down as follows:

Total Score of all Formative Assessment	50%
Behavior	10%
Midterm (Summative) Exam	20%
Final Exam	20%



Recommendations for Success

All students are encouraged to try the following:

1. Be on task during class. Focus and do the required activities to your best abilities.
2. Watch English language media with the English subtitles is a good way to improve English.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. Do not copy your classmate's work; struggle through and do the work on your own. Come see the teacher outside of class time for assistance.
5. Revise your work as recommended by your teacher and work to continuously improve your work. ***Learning is a process, not a product.***

Precise resources:

- MS Teams.
- White notebooks and folder.
- Schoology Course

Course Syllabus – Semester 2/2023

Week	Content
1	University Interview Preparation: <i>Tell me about Yourself</i>
2	Tell me about yourself: Due Nov 3 University Interview Preparation: <i>Why this university?</i>
3	Why this university: Due Nov 10 University Interview Preparation: <i>Why this faculty?</i>
4	Week 3-4: Why this major??: Due Nov 17 University Interview Preparation: <i>Interview Do's and Don'ts</i>
5	Completed Personal Statement: Due Nov 24 Presentation Preparation
6	Presentation Preparation
7	Team Presentation Number 1 Due Dec 13
8	Midterm Review
9	Midterms



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10	<i>Christmas & New Year Break</i>
11	Presentation Preparation
12	Presentation Preparation
13	Team Presentation Number 2: Due Jan 19
14	Final Exam Review
15	Final Exam



Student Syllabus for: EP6 *English for Life Skills 6*: EN30246

Teacher: Mr. Joshua Bolen, J.D. (Mr. Bolen)

COURSE DESCRIPTION:

Welcome to English for Life Skills M6! Through a series of engaging and enriching lessons using Mr. Bolen's selected materials, students will continue to strengthen their core knowledge of the language.

The Students will study and listen to a range of English texts. The Students will study and learn how to give effective presentations. They will use learning skills in the 21st century, which encourages the students to be able to have listening, critical thinking and problem solving skills. The learning skills will be used to make students possess learners' key competencies, which are thinking capability, problem solving capability, capability in applying life skills and capability in technological application. This will be done through the teaching and learning focusing on promoting Thai wisdom with respect to the language and literature and religion and tradition. Teaching and learning also promotes students to live under the Sufficiency Economy Philosophy. Students will be provided with desirable characteristics such as love of nation, religion and king, honesty and integrity and self-discipline. Additional important characteristics are avidity for learning, observance of principles of Sufficiency Economy Philosophy in one's way of life, dedication and commitment to work, cherishing Thai-ness, public-mindedness and gentlemen of Assumption College.

COURSE OBJECTIVES:

Indicators

1. Listen to speakers from a range of countries, using different accents and talking in a range of contexts and situations.
2. Predict content before a listening exercise. Use contextual clues to anticipate topics, potential vocabulary and potential grammatical structures before listening.
3. Listen for gist. Show an understanding of the main ideas of a listening exercise after one listen.
4. Understand signposting language when listening. Show a knowledge and understanding of signposting language and how and why it is used. Make lists of the most common signposting language.
5. Listen for detail. Pick out specific information in a listening passage.
6. Infer relevant details when listening. Use contextual clues to gather information about meaning, who is speaking, what is happening and other questions appropriate to the listening exercise.
7. Practice listening activities that are connected to relevant international exams. Some of these should be done with past-paper questions and done in exam conditions. 8. Explain/discuss how listening can be improved, what techniques can be used and useful sources of practice material.



9. Watch examples of good and bad presentations. Have an accurate understanding of the characteristics of good and bad presentations and be able to plan presentations using the good characteristics and avoiding the bad characteristics. The focus should be on presentation skills that may be useful for university admissions and studying at university.
10. Use verbal communication to effectively present information. Use various techniques such as variation of tone of voice and the stress of important words to convey ideas more clearly and concisely.
11. Use non-verbal communication effectively. Use various techniques such as body language and eye contact to show confidence to the audience.
12. Use signposting language effectively when presenting. Show a knowledge and understanding of signposting language and how and why it is used. Make lists of the most common signposting language that are used during presentations.

Learning Contents

Study English on the topics of news, announcements, poems, skits, and pictures, different non text information styles such as maps, graphs, and initiatives. Study non-fictions, fictions, personal information, various experiences, incidents, themes from analyzed stories, languages, voices, social manners and cultures, traditions and customs, festivals, language structures, idioms, proverbs, poems, ways of life, beliefs and cultures of native speakers, and information related to other learning content groups. Use process of establishing knowledge and understanding, reading process, process of establishing practical skills, working process, process of language skills, process of establishing attitudes, process of conceptualization, process of analysis, process of establishing realization, and process of establishing communicative knowledge and understanding to create knowledge and understanding, communicative ability, thinking ability, problem-solving ability, life skills, and ability to use technology. At the same time, students will have the following intended characteristics which are nationalism, religiosity, loyalty, disciplines, diligence, self-sufficiency, endeavor, love of being Thai, and public mind.

Resources

Required ☐ At least 1 white notebook.

- ☐ Dictionary (English to English, not a translating one)
- ☐ Extra lines A4 paper for written assignments.

Suggested ☐ many different colored pens/markers/highlighters

Academic Integrity Policy

Students are expected to adhere to the Assumption College student handbook. There is to be no plagiarism, no copying, and no cheating of any kind. These and any other acts of academic dishonesty lower the quality of the education and will not be tolerated. Students involved in any form of academic dishonesty, including any student supplying or allowing the copying to take place, will receive a zero.



Plagiarism is the act of taking someone else's work or ideas and passing them off as one's own work or ideas. Examples of plagiarism include the failure to give appropriate acknowledgement when repeating another's idea, phrase, sentence or paragraph, or failure to give appropriate acknowledgement when paraphrasing any of those.

Behavioral Expectations

For the sake of all the members of the class, students are expected to respect themselves, their classmates, the teacher, and the facilities.

Students must accept responsibility for themselves and their actions. Students are expected to be ready at the start of every class (notebooks, textbook, writing utensils, etc.) and to actively participate throughout the lesson until class is dismissed.

Behavior is monitored every day as per the class rules that are set out at the beginning of the academic year (see the front of your note books). At the end of the semester the average is taken and used for the student's behavior score (20%). Students *earn* the scores they receive.

Additionally, all Thai students are expected to embrace the following *desired characteristics*:

- Love for the country and the King, faith in religion
- Possess discipline
- Be self-sufficient
- Proud to be Thai
- Be an A.C. gentleman
- Eager to learn
- Dedicated to work
- Have a sense of public consciousness
- Be honest and upright

Attendance & Tardiness

Attendance will be taken at the start of every class. Students are expected to be in class on-time, every time. Unexcused absences or tardiness will not be tolerated. In the case of planned absences, please notify the teacher in as far in advance as possible. Students are expected to catch up on all missed work outside of class time.

Homework & Classwork

Homework and classwork will be assigned often and must be submitted on or before the due date for a score of 20 points. If the work is not done for the start of class, a maximum score of 15 will be possible. After more than one day has lapsed, a maximum score of 10 will be available. Late assignments can be submitted for a maximum of 50% (10 points) up until the last week of the term. All late or missed assignments that are not turned in *before* the last week of the term will receive a zero.



Grading

This course follows to the Assumption College grading scale:

$Final\ Score \geq 80\%$	4.0
$75\% \leq Final\ Score < 80\%$	3.5
$70\% \leq Final\ Score < 75\%$	3.0
$65\% \leq Final\ Score < 70\%$	2.5
$60\% \leq Final\ Score < 65\%$	2.0
$55\% \leq Final\ Score < 60\%$	1.5
$50\% \leq Final\ Score < 55\%$	1.0
$Final\ Score < 50\%$	0.0

Evaluation and Assessment

The final semester grade for this course out of 100% is broken down as follows:

Total Score of all Assessment	Homework 80%
Behavior	10%
Attendance	10%

Recommendations for Success

English can be a difficult course for many students. All students are encouraged to try the following:

1. Be on task during class. Focus and follow instructions and do the required activities to your best abilities. Do not worry about making mistakes as they are the best way for us to incorporate the materials into our long-term memories.
2. Watch Movies, or TV shows, or YouTube with British / Australian accents, with the English subtitles is a good way to improve your speaking and listening skills; it also helps with vocabulary too.
3. Search online (in English) if you don't understand a topic discussed in class to get a better understanding of the topic.
4. Do not copy your classmate's work; struggle through and do the work on your own. This is how you learn.
5. Come see the teacher outside of class time for assistance.
6. Revise your work, as recommended by your teacher and work to continuously improve your work. Learning is a process, not a product.



THE **ENGLISH PROGRAM** AT ASSUMPTION COLLEGE
Course Syllabus – Semester 2/2023

Precise resources:

- **Teacher** Handouts, Worksheets, Presentations.
- Whiteboards & Projector.

Course Syllabus – Semester 2/2023

<u>Week</u>	<u>Content</u>
1	Presentation #1 Due
2	Planning & creating presentation.
3	Planning & creating presentation.
4	Planning & creating presentation.
5	Planning & creating presentation.
6	Presentation Due December 1st
7	Reading, Quiz and Summarizing, Art and Science
8	Reading, Quiz and Summarizing, Art and Science
9	MIDTERM EXAMS
10	Reading, Quiz and Summarizing, Culinary Arts
11	Reading, Quiz and Summarizing, Economics
12	Reading, Quiz and Summarizing, Adaptation
13	Reading, Quiz and Summarizing, Markets
14	Reading, Quiz and Summarizing, Entertainment
15	Reading, Quiz and Summarizing, Entertainment
16	FINAL EXAMS